243

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CONTENTS OF VOLUME 16

NUMBER 1, MARCH 1971

L. LÉGRÁDI. Spot Test of Carboxylic Acids 1

HAL FERRARI AND D. G. GRABAR. Thermal Properties of Ethambutol (Myambutol). The Detection of the *meso* Isomer in the Presence of Ethambutol by Differential Thermal Analysis 5

RUTH WATKINS, LAWRENCE M. WEINER, AND BENNIE ZAK. Determination of Copper, Iron, and Zinc from a Single Small Sample 14

THADDEUS J. NOVAK AND EDWARD J. POZIOMEK. Detection of Amines by Using the Depolymerization of Poly(chloroaldehydes) 24

W. J. SCOTT AND G. SVEHLA. The Analysis of Tensides by Automatic Radio-Frequency Titrations 37

ANTHONY V. DETHOMAS, CAROLYN R. DETHOMAS, ROBERT LAZAR, AND DONALD VERRASTRO. A Modified Sandwich Microapparatus for Horizontal Thin-Layer Chromatography 52

ALICE LAUGHLIN AND CATHERINE O'NEILL. The Introduction of Microtechniques in Elementary Science Courses. I. Blood Glucose Determination 57

PETER HAUX AND SAMUEL NATELSON. Microprocedure for Serum Triglyceride Estimation 68

JOHN T. STOCK AND ROBERT J. MERRER. Sources of Error in the Mercury(I) Titration of Low Concentrations of Hexacyanoferrate(III) In Alkaline Iodide Medium 77

D. J. LEGGETT AND B. W. BUDESINSKY. Determination of Silver with the Thiosemicarbazone of picoline-2-aldehyde 87

F. BERMEJO-MARTINEZ AND MARIA DEL PILAR SOUZA-CASTELO. Identification of Several Ions by Nonaqueous Solutions of Tin(II) Chloride 94

MANUEL BRANDT AND JEROME M. BENTZ. A Cooperative Study of the Determination of Lead in Milk 113

J. BUDĚŠÍNSKÝ, J. DOLEŽAL, B. ŠRÁMKOVÁ, AND J. ZÝKA. The Preparation and Properties of the Acetate Complex of Trivalent Cobalt 121

E. J. POZIOMEK, G. L. BOSHART, E. V. CRABTREE, R. DEHN, J. M. GREEN, D. J. HOY, R. A. MACKAY, G. T. PRYOR, H. STONE, AND M. TANABE. Research in the Olfactory Detection of Chemical Agents 136

F. SALZER, Physicochemical Measuring Methods for End-Point Determination in Organic Elemental Microanalysis 145

BOOK REVIEWS 165

ANNOUNCEMENT 175

ERRATUM 176

CONTENTS OF VOLUME 16

NUMBER 2, JUNE 1971

M. EDRISSI AND A. MASSOUMI. 2-Mercaptopyridine-1-oxide (sodium salt) as a Selective Absorptiometric Reagent for Determination of Palladium (II) 177

M. SARWAR, AMANULLAH K. RANA, AND SHAHNAZ PARVEEN HAMDANI. Determination of Arsenite with *N*-bromosuccinimide Using Bordeaux Red as an Indicator 184

W. A. SASSAMAN AND C. MERRITT, JR. Determination of Water from Ultramicro Solid Samples 188

CHANG-MING YIH AND D. F. MOWERY, JR. Microdetermination of Sulfur Using a Titrimetric Method with a Recorded Photometric End Point .. 194

MENDEL FRIEDMAN. Solvent Effects in the Absorption Spectra of the Ninhydrin Chromophore 204

ZDENĚK SULCEK, MILAN VAŠÁK, AND JAN DOLEŽAL. The Study of the Sorption of Complex Cations of Palladium on Silica Gel. Ammine Complexes and Ethylenediamine Complexes 210

CARL-GUSTAF ROSEN, AMADEO J. PESCE, AND MARIE GAIZUTIS. Fluorometric Determination of Serum Albumin–Potentials and Limitations 218

Z. ŠTEFANAC, M. TOMAŠKOVIĆ, AND I. BREGOVEC. Microdetermination of Organic Selenoxides 226

ROBERT D. BRAUN AND JOHN T. STOCK. Karl Fischer Titrimetry with Bimetallic Potentiometric Electrode Systems 236

ZBIGNIEW GREGOROWICZ, HENRYK JALOWIECKI, AND EWA BOBROWSKA. The Geometric Index in Thin-Layer Chromatography 241

A. MANASTERSKI, L. M. WEINER, AND B. ZAK. Spectrophotometric Study of the Reaction of 3-(2-Pyridyl)-5,6-bis(4-Phenylsulfonic Acid)-1,2,4-Triazine with Iron and Copper 245

B. W. BUDESINSKY AND J. SVEC. Photometric Determination of Scandium with 1,5-Diantipyrinyl-3-cyanoformazan 253

M. SEDLAK, W. H. COWELL, AND O. I. MILNER. Determination of Inorganic Sulfates in Water-Dispersible Sulfonates 259

H. TRUTNOVSKY. Improvement of the Heraeus Micro-U Combustion Apparatus 266

RUTH E. HEINEN AND HORACE W. GERARDE. Use of Unopettes for Salicylate Determinations 268

R. J. DOYLE AND M. A. PFEIFER. An Ultraviolet Method for the Microdetermination of 2-Deoxyhexoses 273

E. DEBAL AND R. LEVY. Rapid Method for the Microdetermination of Chlorine in Organic Compounds Involving Combustion and Automatic Acidimetric Coulometry 277

CONTENTS OF VOLUME 16

ALLAN S. BERGER, W. LIKUSSER, AND D. F. BOLTZ. The Ultraviolet Spectrophotometric Determination of Gold 286

M. HANIF, J. DOLEŽAL, AND J. ZÝKA. Oxidation of Some Inorganic Systems by Means of Cobalt(III) Acetate 291

GEORGE M. MALACINSKI. Microassay of α-Amylase with Radioactive Substrate 296

RUTH WATKINS AND BENNIE ZAK. Sensitive Microreacting Ligand for Serum Copper 304

LEON D. FREEDMAN, G. O. DOAK, AND B. R. EZZELL. A Convenient Method for Determining the Molecular Weights of Organophosphorus and Organosenic Acids 311

FELIX ROLANT. Gas-Transfer Syringe for the Scholander Gas Analyzer .. 315

E. WACHBERGER, A. DIRSCHERL, AND K. PULVER. Automatic Procedure for the CHN-Analysis of Organic Substances in the Milligram Range 318

BOOK REVIEWS 329

NUMBER 3, SEPTEMBER 1971

Y. A. GAWARGIOUS AND A. B. FARAG. Iodometric Microdetermination of Phosphorus in Organic Compounds 333

Y. A. GAWARGIOUS AND A. B. FARAG. Iodometric Microdetermination of Phosphorus in Organophosphorus Compounds Containing Nitrogen, Sulfur and Halogens 342

M. EDRISSI AND A. MASSOUMI. Selective Determination of Iron as tris (2-thio-4-methyl-pyridine-1-oxide) -iron (III) and the Application of this Substance for the Analysis of Mercury (II) 353

JÓZEF SLIWIOK AND TERESA KOWALSKA. The Application of Thin-Layer Chromatography to the Investigation of the Oxidation Process in Oleyl Alcohol and Oleic Acid 359

O. C. SAXENA. Direct Titrimetric Microdetermination of Thallium (I), Indium, and Gallium (III) Separately. I. Microdetermination of Indium–Thallium (I) and Indium–Gallium (III) in one Solution Without Separation 367

R. AZZAM, R. SHABANA, AND A. ALIAN. On the Use of Simple Aliphatic Alcohols and Acetone in Extraction Techniques. I. Triododecylamine–hydrochloric acid–water system 376

WALTER SELIG. Semimicrodetermination of Carboxylic Acids in the Presence of Large Amounts of Acyl Chlorides 385

ALAN F. KRIVIS AND C. C. ONG. Thin-Layer Chromatography of Amino Acids 391

ZAFARULLAH SHEIKH, JAN DOLEŽAL, AND JAROSLAV ZÝKA. Oxidation Study of Gentisic Acid and Its Derivatives and of α-Tocopherol 395

RAY E. HUMPHREY, ROSE MARY MANISCALCO, AND WILLIE HINZE. Determination of Silver by Potentiometric Titration with Sodium Thiosulfate .. 410

M. KUHNERT-BRANDSTÄTTER AND P. GASSER. Solvates and Polymorphic Modifications of Steroid Hormones. I. 419

R. E. HUMPHREY, C. L. OLESON, G. M. MATULA, AND A. C. VAUGHT. Reduction of Disulfides in the Milligram Range with Hypophosphorous Acid and Organic Phosphites 429

HALINA SIKORSKA-TOMICKA. Thiolactams in the Precipitation of Metal Sulphides. IV. Gravimetric Determination of Bismuth 437

BENJAMIN W. GRUNBAUM AND NELLO PACE. Microchemical Urinalysis. VIII. Determination of Urinary 17-Hydroxycorticosteroids 443

JOSEPH F. ALICINO. Submicro Determination of Hydrogen in Organic Compounds: Application to the Determination of Water and Simultaneous Determination of Nitrogen 450

DEWAYNE TOWNSEND, BRIAN LIVERMORE, AND HOWARD JENKIN. Simultaneous Microchemical Analysis of Glycerol, Fatty Acid, and Phosphorus in Complex Lipids 456

EVELINA DULCE RIBEIRO LINHARES. Microdetermination of Plasma or Serum Vitamin A and Carotene 467

JOHN H. COPENHAVER, DANIEL R. CRONK, AND MICHAEL J. CARVER. The Use of Iodine as a Visualization Reagent for Some Common Psychoactive Agents 472

ZBIGNIEW GREGOROWICZ AND JÓSEF ŚLIWIOK. Rule for use of the Fuchsine Dyes as the Visualizing Reagents in TLC of Organic Compounds 480

L. LÉGRÁDI. Detection of Benzyl and Benzal Derivatives 483

BENNIE ZAK, CONSTANCE C. KEMPISTY, AND EUGENE S. BAGINSKI. A Solvent Problem in Barbiturate Determinations 488

BOOK REVIEWS 494

ANNOUNCEMENT 500

NUMBER 4, DECEMBER 1971

R. C. KAPOOR AND J. K. JAILWAL. Voltammetric Studies of Fe(III, II)–Glycine Complexes 501

R. C. KAPOOR AND J. K. JAILWAL. Voltammetry of Fe(II)–Fe(III) System Using Different Shaped Rotating Platinum Electrodes 507

A. ALIAN, W. SANAD, R. SHABANA, AND A. HAGGAG. On the Extraction of Acids and Neptunium from Alcoholic and Acetonic Solutions 515

CONTENTS OF VOLUME 16

M. Edrissi, M. J. Jadbabaee, and J. A. W. Dalziel. New Selective Methods for Spectrophotometric, Gravimetric, and Titrimetric Determinations of Copper, Using 1-Hydroxy-2-pyridinethione and 1-Hydroxy-4 methyl-2-pyridinethione reagents 526

M. Edrissi, A. Massoumi, and J. A. W. Dalzeil. Comparative Studies of 1-Hydroxy-2-pyridinethione and Its Methyl Derivatives as Analytical Reagents for Metal Ions 538

Zafarullah Sheikh, Jan Doležal, and Jaroslav Zýka. Oxidation of Hydroxynaphthalenes by Means of Co(III) Acetate 548

John T. Stock. Bipotentiometric Titration. Microchemical and General Applications 557

H. K. L. Gupta and D. F. Boltz. The Indirect Determination of Organic Compounds by Atomic Absorption Spectrometry 571

M. Kuhnert-Brandstätter, and P. Gasser. Solvates and Polymorphic Modifications of Steroid Hormones. II. 577

M. Kuhnert-Brandstätter, and P. Gasser. Solvates and Polymorphic Modifications of Steroid Hormones. III. 590

R. W. Cattrall and S. J. E. Slater. The Spectrophotometric Determination of Europium(III) Using Chrome Azurol S. 602

Wolfgang J. Kirsten. Ultramicrodetermination of Carbon, Hydrogen, and Nitrogen with a Modified Walisch-Technicon Analyzer 610

M. H. Hashmi, Tehseen Qureshi, and A. I. Ajmal. 3, 6-Pyridazinediol as a Specific Spectrophotometric Reagent for the Determination of Iron 626

E. Seoane, N. Valls, and J. M. Ribó. Study of Nonvolatile Chemical Components of *Thymus caespititius* 633

M. H. Hashmi, A. A. Ayaz, A. Viegas, and A. Subhan Adil. Determination of Ascorbic Acid and Differential Detection of the Vitamin and Reducing Sugars 645

Ray E. Humphrey and Jose J. Alvarez. Improved Spectrophotometric Determination of Cyanide with Organic Disulfides Using Dimethylformamide 652

Carole R. Sawicki and Frank P. Scaringelli. Colorimetric Determination of Nitrate After Hydrazine Reduction of Nitrite 657

Youssef A. Gawargious. Studies and Microdetermination of Some Organic Sulfur Functions by Reduction with Titanium(III) Sulfate Solution .. 673

Fernando Walls. An Apparatus for the Distillation of Small Quantities of Liquids 684

Book Reviews 686

Author Index 696

Reverse Osmosis

By S. SOURIRAJAN
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This monograph presents a review of the science and engineering of reverse osmosis – a new and versatile field of separation technology in chemical process engineering. This general separation technique is applicable in the separation, concentration, and fractionation of inorganic and organic substances, both in aqueous and nonaqueous solutions in either the liquid or the gaseous phase. This book examines the reverse osmosis process as applied to saline water conversion, and to water treatment in general. It discusses the preparation and performance of reverse osmosis membranes, parameters of process design, separation of mixed inorganic solutes and organic liquid mixtures, and it provides suggestions for future research and development.

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